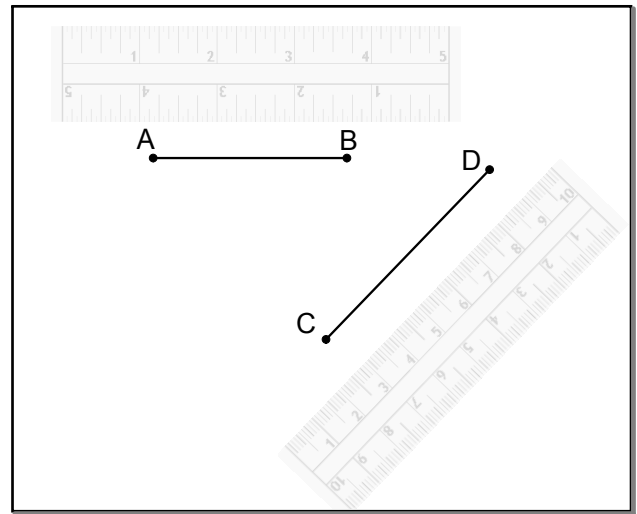


1.2 Use Segments and Congruence

postulate or axiom--a rule that is accepted without proof

Postulate 1--Ruler Postulate--the points on a line can be matched one-to-one with the real numbers.



Sep 17-7:21 AM

Sep 17-7:25 AM

When three points are collinear, then you can say that one point is between the other two.

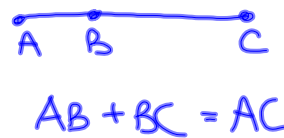
B is between A and C



E is NOT between D and F



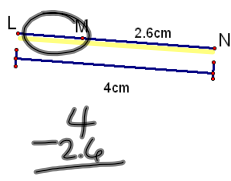
Postulate 2--The Segment Addition Postulate--If B is between A and C, then $AB + BC = AC$.
If $AB + BC = AC$, then B is between A and C.



notation
 $AB = \text{length of } \overline{AB}$

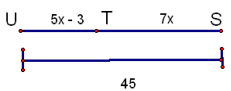
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$LM = 1.4 \text{ cm}$

Find ST if T is between U and S and
 $UT = 5x - 3$ and $ST = 7x$

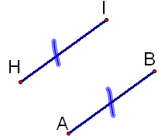


$ST = 28 \text{ units}$

$5x - 3 + 7x = 45$
 $x = 4$

Sep 16-9:48 AM

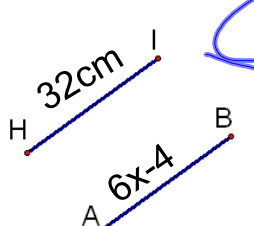
Congruent Segments--segments that have the same length



lengths are = segments are \cong

$HI = AB$ $\overline{HI} \cong \overline{AB}$

Sep 17-7:23 AM



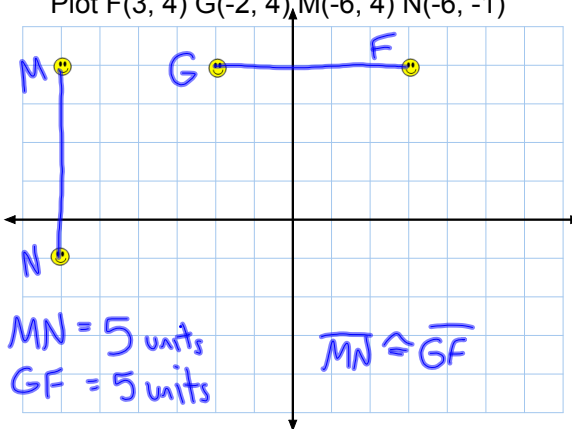
$HI = AB$

$x = ?$

$6x - 4 = 32$
 $6x = 36$
 $x = 6$

Sep 16-9:54 AM

Plot $F(3, 4)$ $G(-2, 4)$ $M(-6, 4)$ $N(-6, -1)$



$MN = 5 \text{ units}$
 $GF = 5 \text{ units}$

$\overline{MN} \cong \overline{GF}$

Jun 20-7:35 AM

HW
p12-13
#s 6-11,13,14,27-30

Jun 20-7:42 AM